

Table N-1. Upland Scrub Communities: Potential CALFED Effects and Conservation Measures

Summary Effect of Implementing CALFED Actions with Conservation Measures on Upland Scrub Communities: Potential for permanent loss of habitat area with construction of new or enlarged storage reservoirs and associated facilities.

Associated Evaluated Species: California condor, Alameda whipsnake, limestone salamander, ringtail, golden eagle, Swainson's hawk, greater western mastiff-bat, San Joaquin whipsnake, dimorphic snapdragon, El Dorado bedstraw, Marin western flax, pallid manzanita, Pine Hill ceanothus, Pine Hill flannelbush, adobe-lily, San Benito evening-primrose, tree-anemone, Stebbins' morning-glory, Mount Diablo fairy-lantern, Baker's larkspur, Baker's manzanita, Klamath manzanita, Indian Valley brodiaea, Ione buckwheat, Irish Hill buckwheat, Marin checkerbloom, Layne's ragwort, Mason's ceanothus, dwarf soaproot, Mt. Diablo bird's beak, Mt. Hamilton coreopsis, rock sanicle, Red Hills ragwort, yellow larkspur, Brandegee's eriastrum, Ione manzanita, Ben Lomond buckwheat, Congdon's lomatium, Contra Costa manzanita, Mariposa clarkia, Mount Diablo jewelflower, most beautiful jewelflower, Arburua Ranch jewelflower, Mount Diablo manzanita, Mt. Hamilton jewelflower, Napa western flax, Brewer's western flax, drymaria-like western flax, Tehama County western flax, Parry's horkelia, Carquinez goldenbush, saw-toothed lewisia, shaggyhair lupine, Sharsmith's harebell, Hall's bush mallow, Mt. Diablo phacelia, and San Antonio Hills monardella.

Summary Programmatic Action Outcomes	Applicable Programmatic Actions	Potential Beneficial Effects	Potential Adverse Effects	Conservation Measures Incorporated into the Program	Overall Effect of Summary Programmatic Action Outcomes with Conservation Measures
Delta Region					
CALFED actions proposed for the Delta Region would not affect upland scrub communities.					
Bay Region					
Associated Evaluated Species: Marin western flax, pallid manzanita, ringtail, golden eagle, Swainson's hawk, Baker's larkspur, Baker's manzanita, Marin checkerbloom, Mason's ceanothus, rock sanicle, yellow larkspur, San Joaquin whipsnake, Ben Lomond buckwheat, Contra Costa manzanita, Mount Diablo jewelflower, most beautiful jewelflower, Mount Diablo manzanita, and Napa western flax.					
Summary Programmatic Action Outcomes E1, E5b, E7, E10b, E12, E13b, E14, E16b, E21, E22, E24, E25, E28, E30, L3, Q2, Q4, Q7, Q8, W1-W4, and T1 are likely to have no discernable effect on upland scrub communities in the Bay Region.					
Watershed Management Program					
M1. Fund and implement watershed restoration, maintenance, conservation, and monitoring activities.	None.	Potential beneficial effects of the program are not analyzed. The type and magnitude of potential beneficial effects would depend on the type of specific program actions that are implemented (N/A).	Potential adverse effects of the program are not analyzed. The type and magnitude of potential adverse effects would depend on the type of specific program actions that are implemented (N/A).		Potential program effects cannot be evaluated.

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Summary Programmatic Action Outcomes	Applicable Programmatic Actions	Potential Beneficial Effects	Potential Adverse Effects	Conservation Measures Incorporated into the Program	Overall Effect of Summary Programmatic Action Outcomes with Conservation Measures
Sacramento River Region					
Associated Evaluated Species: Ringtail, golden eagle, Swainson's hawk, Indian Valley brodiaea, greater western mastiff-bat, and San Joaquin whipsnake, Pine Hill caenothus, Pine Hill flannelbush, Klamath manzanita, dwarf soaproot, Brandgee's eriastrum, adobe-lily, Drymaria-like western flax, Tehama County western flax, and dimorphic snapdragon.					
Summary Programmatic Action Outcomes E1-E3, E6, E13c, E15c, E16c, E18b, E22-E26, E27b, Q1-Q4, Q7, W1-W4, T1, S2, O1, and O2 are likely to have no discernable effect on upland scrub communities in the Sacramento River Region.					
Watershed Management Program					
M1. Fund and implement watershed restoration, maintenance, conservation, and monitoring activities.	None.	N/A	N/A		Potential program effects cannot be evaluated.
Storage Facilities					
S1. Construct and operate enlarged or new surface storage facilities.	None.	Likely to be no discernable beneficial effects on existing habitat areas and associated evaluation species (N/E).	Construction of storage facilities and associated infrastructure could result in permanent loss of habitat area (AE1). Construction-related activities associated with implementing actions could result in take of evaluated species (AE2).	None. To the extent practicable, avoid construction activities during the breeding period of species that could be adversely affected by the actions (M1). To the extent practicable, avoid direct disturbance to populations and individuals of evaluated plant species (M2).	Potential for loss of habitat area within the constructed footprint of storage facilities and associated infrastructure.

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Summary Programmatic Action Outcomes	Applicable Programmatic Actions	Potential Beneficial Effects	Potential Adverse Effects	Conservation Measures Incorporated into the Program	Overall Effect of Summary Programmatic Action Outcomes with Conservation Measures
			<p>Potential for permanent loss or degradation of existing habitat areas occupied by evaluation species (AE3).</p> <p>Recreational activities potentially associated with new storage facilities could result in take of evaluated species (AE4).</p>	<p>When feasible, establish and protect additional populations of evaluated plant species in suitable nearby habitat areas before construction activities are implemented that could affect existing populations or individuals (M3).</p> <p>To the extent practicable, avoid adverse effects on habitat areas occupied by evaluated species (M4).</p> <p>Restore or enhance 2 to 5 acres of in-kind upland scrub habitat near where impacts are incurred for every acre of existing habitat occupied by evaluation species that is affected by the actions (M5).</p> <p>Manage recreational uses to avoid or reduce the likelihood for recreation-related impacts on sensitive plant populations and wildlife use areas (M6).</p>	

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Table N-1. Continued

Summary Programmatic Action Outcomes	Applicable Programmatic Actions	Potential Beneficial Effects	Potential Adverse Effects	Conservation Measures Incorporated into the Program	Overall Effect of Summary Programmatic Action Outcomes with Conservation Measures
San Joaquin River Region					
Associated Evaluated Species: California condor, Alameda whipsnake, limestone salamander, El Dorado bedstraw, Pine Hill caenothus, Pine Hill flannelbush, San Benito evening-primrose, Stebbins' morning-glory, ringtail, golden eagle, Swainson's hawk, Ione buckwheat, Irish Hill buckwheat, Mount Diablo bird's beak rock sanicle, Ione manzanita, greater western mastiff-bat, San Joaquin whipsnake, Ben Lomond buckwheat, Parry's horkelia, Congdon's lomatium, Contra Costa manzanita, Mariposa clarkia, Mount Diablo jewelflower, Mount Diablo manzanita, Mount Hamilton jewelflower, Napa western flax, shaggyhair lupine, Sharsmith's harebell, Big Bear Valley woollypod, Mount Diablo fairy-lantern, tree-anemone, Brewer's western flax, Hall's bush mallow, Mount Diablo phacelia, most beautiful jewelflower, and San Antonio Hills monardella.					
Summary Programmatic Action Outcomes E1, E2, E6, E13d, E15d, E18c, E22-E26, E27b, E29, Q1, Q2, Q4-Q8, W1-W4, T1, S2, O1, and O2 are likely to have no discernable effect on upland scrub communities in the San Joaquin River Region.					
Watershed Management Program					
M1. Fund and implement watershed restoration, maintenance, conservation, and monitoring activities.	None.	N/A	N/A		Potential program effects cannot be evaluated.

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Table N-1. Continued

Summary Programmatic Action Outcomes	Applicable Programmatic Actions	Potential Beneficial Effects	Potential Adverse Effects	Conservation Measures Incorporated into the Program	Overall Effect of Summary Programmatic Action Outcomes with Conservation Measures
Storage Facilities					
S1. Construct and operate enlarged or new surface storage facilities.	None.	N/E	AE1. AE2. AE3. AE4.	None. M1. M2. M3. M4. M5. M6,	Potential for loss of habitat area within the constructed footprint of storage facilities and associated infrastructure.

Contributors to the development of this table: Todd Sloat, Pete Rawlings, and Gerrit Platenkamp of Jones & Stokes Associates.

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Table N-2. Key to Table N-1 Potential Beneficial Effects, Potential Adverse Effects, and Conservation Measures Codes

Potential Beneficial Effects	Potential Adverse Effects	Conservation Measures Incorporated into the Program
Potential beneficial effects of the program are not analyzed. The type and magnitude of potential beneficial effects would depend on the type of specific program actions that are implemented (N/A).	Construction of storage facilities and associated infrastructure could result in permanent loss of habitat area (AE1).	To the extent practicable, avoid construction activities during the breeding period of species that could be adversely affected by the actions (M1).
Likely to be no discernable beneficial effects on existing habitat areas and associated evaluation species (N/E).	Construction-related activities associated with implementing actions could result in take of evaluated species (AE2).	To the extent practicable, avoid direct disturbance to populations and individuals of evaluated plant species (M2).
	Potential for permanent loss or degradation of existing habitat areas occupied by evaluation species (AE3).	When feasible, establish and protect additional populations of evaluated plant species in suitable nearby habitat areas before construction activities are implemented that could affect existing populations or individuals (M3).
	Recreational activities potentially associated with new storage facilities could result in take of evaluated species (AE4).	To the extent practicable, avoid adverse effects on habitat areas occupied by evaluated species (M4).
	Potential adverse effects of the program are not analyzed. The type and magnitude of potential adverse effects would depend on the type of specific program actions that are implemented (N/A).	Restore or enhance 2 to 5 acres of in-kind upland scrub habitat near where impacts are incurred for every acre of existing habitat occupied by evaluation species that is affected by the actions (M5). Manage recreational uses to avoid or reduce the likelihood for recreation-related impacts on sensitive plant populations and wildlife use areas (M6).

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